

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of:

Andrew W. Lake

Group Art Unit: Unknown

Examiner: Unknown

Serial No.: 10/630,053

Filed: July 30, 2003

For: SYSTEM AND METHOD FOR MONITORING THE  
MECHANICAL CONDITION OF A RECIPROCATING  
COMPRESSOR

Attorney Docket No.: LYON 0173 PUS

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
U.S. Patent & Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and § 1.97-1.98, the references listed and identified on the attached Form PTO/SB08A are being submitted herewith for consideration by the Examiner.

Applicants also wish to bring to the Examiner's attention that more than one year prior to the actual filing date of the present application, the assignee of the present invention, and agents of the assignee, used the following monitoring system on equipment that was used to produce material that was sold to customers. A tensile strain gage was placed on a tie-rod member of a compound cylinder of a reciprocating compressor. The tensile strain

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8**

I hereby certify that this paper, including all enclosures referred to herein, is being deposited with the United States Postal Service as first-class mail, postage pre-paid, in an envelope addressed to: Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on:

November 10, 2003  
Date of Deposit

Marc F. Malooley  
Name of Person Signing

Marc F. Malooley  
Signature


of the tie-rod was measured and used to generate a tensile strain profile, which was used as the basis of a pressure profile. Vibrations of the compound cylinder were measured and correlated to the pressure profile.

While this Statement is being filed in compliance with the duty of disclosure, citation of the attached references is not to be construed as an admission that any of the reference(s) are "material" as defined under 37 C.F.R. § 1.56(b).

If the filing date of this application is on or before June 30, 2003, a copy of each reference listed on the attached Form PTO/SB08A is included herewith. If this application was filed after June 30, 2003, copies of any cited U.S. patent/application references have not been included. Consideration and entry into the record of these references is respectfully requested.

Respectfully submitted,

**Andrew W. Lake**

By:   
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Date: November 10, 2003

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<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.